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R. A. Boettcher JS 884

David L. Narver, Jr. Survey Data - Bikini

August 5, 1953

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The computations and adjustments of the primary horizontal control net and the secondary stations along the west reef have been completed. When the results of observing at Station Oboe to the stations on the east reef are received here these stations can be computed, and the network considered completed. The observing records of the survey indicated very good field work and that specified observing procedures had been carefully followed. This is borne out by the fact that a small adjustment was required. The survey personnel should be complimented on their performance as the survey was accomplished under adverse weather conditions and with most of the personnel having limited experience in this type of surveying.

A plane coordinate grid has been established which is based on the adjusted network and it is proposed to issue adjusted coordinates for all of the island traverses. The report of the survey will also give the relation between this survey and the earlier U. S. Navy surveys.

The additional information required from the jobsite to complete the report and adjusting of traverses is as follows:

- (1) Yoke - A precise angle and distance tie at Station Yoke to the U. S. N. Station Aran.
- (2) Able-Charlie - The orientation of these islands, as determined by the high tide line traverses, is weak and a stronger tie should be made. As Station 1341 on the west reef is to be located to third order accuracy it may be practical to make a direct tie to the Able traverse.
- (3) Dog-George - The orientation of these islands, based on the high tide line traverse, is also weak. As the relation between Station 1210 on Dog and Station 1342 on George is required to second order accuracy, it is suggested that the local triangulation recommended by memo on June 3, 1953 to locate these stations be accomplished at the earliest possible date. The resulting adjusted coordinates will then supercede the original and the adjusted jobsite coordinates referred to in jobsite memo O/S 6520. At the time this survey is made, precise ties should be included to Stations Mon and Gel of the U. S. Navy surveys.
- (4) How - To complete this site the angle is required at P.I. 25 to Station S. How and the distance P.I. 25 - S. How.

REPOSITORY NATIONAL ARCHIVES
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COLLECTION RG 326 ATOMIC ENERGY COMMISSION
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FOLDER SURVEYS
AUGUST 1, 1953 ON

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY <i>ARM/ma</i> 7/28/94	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (NAME) <i>ARM/ma</i>	1. CLASSIFICATION RETAINED
NAME: <i>ARM/ma</i>	2. CLASSIFICATION CHANGED TO:
DATE: 7/28/94	3. CONTAINS NO DOE CLASSIFIED INFO
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- (5) Nan - The traverse at this site has been tied in at Station Nan but due to the length of the island this tie is not sufficient for proper orientation. This can be accomplished by an angle at Nan from a station of the net to a P.I. at the northern part of the island.
- (6) Observations at Station Oboe to Stations Dig, Love and Mike.

A deadline has been set for issuing of adjusted coordinates for all Scientific Stations. To meet this deadline it will be necessary to give high priority to these surveys and transmittal of the data to this office.

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